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Claims

- 1. A process for the isolation and/or purification of a proteinaceous material comprising the steps:
 - (a) providing an aqueous sample comprising a proteinaceous material,
 - (b) contacting the aqueous sample with a solid phase comprising a mixture of hydrophobic groups and hydrophilic groups on at least one surface thereof, wherein said proteinaceous material binds to said at least one surface, and
 - (c) separating off other sample components.
- 2. The process according to claim 1, wherein the solid phase comprises solid particles.
 - 3. The process according to claim 1 or 2, wherein the solid phase comprises solid particles having a diameter from ≥ 1 nm to ≤ 10 mm.
 - 4, The process according to claim 2 or 3, wherein said particles are magnetic.
- 5. The process of claim 4, whereinthe particles are paramagnetic or/and 25 ferromagnetic.
 - 6. The process according to any of claims 1 to 5, wherein the hydrophobic groups are selected from alkyl groups or/and aryl groups.
 - 7. The process according to claim 6, wherein the alkyl groups are selected from C₈ alkyl, C₁₈ alkyl and mixtures thereof.

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- 8. The process according to any of claims 1 to 7, wherein the hydrophilic groups are hydroxyl groups.
- 9. The process according to any of the preceding claims, wherein the molar ratio of hydrophobic to hydrophilic groups is from 10:1 to 1:10.
 - 10. The process according to any of the preceding claims, wherein step(c) is performed by magnetic means.
 - 11. The process according to any of the preceding claims, wherein the solid phase having proteinaceous material bound thereto is subjected to at least one washing step.
- 15 12. The process according to any of the preceding claims, further comprising the step
 - (d) eluting the proteinaceous material from the solid phase.
- 13. The process according to claim 12, wherein after elution the proteinaceous material and the solid phase are separated using magnetic means.
- 14. The process according to any of the preceding claims, wherein the isolated and/or purified proteinaceous material is analyzed by mass spectrometry.
 - 15. The process according to any of the preceding claims, wherein at least one process step is automated.